



## PRODUCT DATA SHEET **RECYCLEX® TRM – V**

### DESCRIPTION

Recyclex TRM – V, permanent non-degradable Turf Reinforcement Mat (TRM), consists of 100% post-consumer recycled polyester (green or brown bottles) with 80% five-inch fibers or greater fiber length. It is of consistent thickness with fibers evenly distributed throughout the entire area of the TRM. The top and bottom of each TRM is covered with heavy duty polypropylene net. Fibers are tightly crimped and curled to allow fiber interlock, and to retain 95% memory of the original shape after loading by hydraulic events. Fibers have a specific gravity greater than 1.0; therefore, the blanket will not float during hydraulic events. Recyclex TRM – V meets Federal Government Executive Order initiatives for use of products made from, or incorporating, recycled materials. Recyclex TRM – V shall be manufactured in the U.S.A. and the fibers shall be made from 100% recycled post-consumer goods.

Recyclex TRM – V has a design soil loss ratio (event-based RUSLE C factor) of .022 and is typically suitable for slopes up to .5H:1V. Vegetated Recyclex TRM – V is rated for channel flows up to 16.0+ ft/s (4.9+ m/s) and 8.0+ lb/ft<sup>2</sup> (384+ Pa) shear stress.

### PHYSICAL PROPERTIES

Recyclex TRM – V measurements at time of manufacturing:

<b>Width</b>	8.0 ft (2.4 m)	16 ft (4.9 m)
<b>Length</b>	112.5 ft (34.3 m)	112.5 ft (34.3 m)
<b>Area</b>	100.0 yd <sup>2</sup> (83.6 m <sup>2</sup> )	200.0 yd <sup>2</sup> (167.2 m <sup>2</sup> )
<b>Weight</b>	50.0 lb (22.7 kg)	100.0 lb (45.4 kg)
<b>Fiber Length (80% min.)</b>	≥5.0 in (≥12.7 cm)	≥5.0 in (≥12.7 cm)
<b>Mass per Unit Area (± 10%)</b>	0.50 lb/yd <sup>2</sup> (0.27 kg/m <sup>2</sup> )	0.50 lb/yd <sup>2</sup> (0.27 kg/m <sup>2</sup> )
<b>Net Openings</b>	0.75 in x 0.75 in (19.1 mm x 19.1 mm)	0.75 in x 0.75 in (19.1 mm x 19.1 mm)

### TYPICAL INDEX VALUES

<u>Index Property</u>	<u>Test Method</u>	<u>Value</u>
Thickness	ASTM D 6525	0.294 in (7.47 mm)
Light Penetration	ASTM D 6567	57%
Resiliency	ASTM D 6524	86%
Mass per Unit Area	ASTM D 6566	0.50 lb/yd <sup>2</sup> (0.271 kg/m <sup>2</sup> )
MD-Tensile Strength Max.	ASTM D 6818	295.2 lb/ft (4.31 kN/m)
TD-Tensile Strength Max.	ASTM D 6818	194.4 lb/ft (2.84 kN/m)
MD-Elongation	ASTM D 6818	32.2%
TD-Elongation	ASTM D 6818	40.8%
Swell	ECTC Procedure	8%
Water Absorption	ASTM D 1117/ECTC	33.8%
Specific Gravity	ASTM D 792	1.21
UV Stability	ASTM D 4355 (1,000 hr)	80% minimum
Porosity	Calculated	97.5%
Bench-Scale Rain Splash	ECTC Method 2	SLR = 4.13 @ 2 in/hr <sup>a,b</sup>
Bench-Scale Rain Splash	ECTC Method 2	SLR = 4.97 @ 4 in/hr <sup>a,b</sup>
Bench-Scale Rain Splash	ECTC Method 2	SLR = 5.99 @ 6 in/hr <sup>a,b</sup>
Bench-Scale Shear	ECTC Method 3	2.40 lb/ft <sup>2</sup> @ 0.5 in soil loss <sup>b</sup>
Germination Improvement	ECTC Method 4	353%

<sup>a</sup> SLR is the Soil Loss Ratio, as reported by NTPEP/AASHTO. <sup>b</sup> Bench-scale index values should not be used for design purposes.

